"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVITAYEV, P.A.; RYBAKOVA, M.T., redaktor; DZHATIYEV, S.O., tekhnicheskiy redaktor

[Observations and experiments in natural science for elementary schools; teacher's manual] Nabliudeniia i opyty po estestvoznaniiu v nachal'noi shkole; posobie dlia uchitelia. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 111 p. (Nature study) (MLRA 9:11)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

VERZILIN, Nikolay Mikhaylovich; ZAVITAYEV, P.A.; KORSUNSKAYA, V.M.; PADALKO, N.V.; RYKOV, N.A.; SOKOLOV, N.L.; SHIBANOV, A.A.; YELAGIN, V.D., redaktor; GORNEK, V.P., tekhnicheskiy redaktor

[Working with pupils on school experimental plots] Metodika raboty s uchashchimisia na shkol'nom uchebno-opytnom uchastke. Pod red. N.M. Verzilina. [Moskva] Izd-vo Akademii pedagog. nauk RSFSR, 1956. 685 p. (MIRA 9:11)

1. Leningradskiy nauchno-issledovatel'skiy institut pedagogiki Akademii pedagogicheskikh nauk (for Verzilin, Korsunskaya, Rykov, Sokolov) 2. Yestestvennonauchnyy institut im. P.F.Lesgafta Akademii pedagogicheskikh nauk (for Shibanov) 3. Institut metodov obucheniya Akademii pedagogicheskikh nauk (for Zavitayev, Padalko) 4. Chlen-korrespondent APN RSFSR (for Verzilin)

(School gardens)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

PCHELKO, Aleksandr Spiridonovich; ZAVITAYEV, Petr Alekseyevich; PROFERANSOVA, N.V., redaktor; SOKOLOVA, P.Ya., tekhnicheskiy redaktor

[Elements of general science teaching in primary schools; a practical manual] Elementy politekhnicheskogo obucheniia v nachal'noi shkole; metodicheskoe posobie. Izd. 3-e, perer. Moskva, Izd-vo Akad. pedageg. nauk RSFSR, 1956. 95 p. (MLRA 10:4)
(Science--Study and teaching)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ROZANOV, Ivan Grigor'yevich, starshiy nauchnyy sotrudnik; ZAVITAYEV, Petr Alekseyevich, starshiy nauchnyy sotrudnik; SKATKIN, M.N., redaktor; FOMENKO, A.S., redaktor; DZHATIYEV, S.G., tekhnicheskiy redaktor

[Handicraft lessons for the fourth grade] Uroki ruchnogo truda v chetvertom klasse. Pod red. Skatkina. Izd. 2-oe, dop. i perer. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 231 p. (MIRA 10:11)

1. Institut teorii i istorii pedagogiki (for Rozanov). 2. Institut metodov obucheniya Akademii pedagogicheskikh nauk RSFSR (for Zavitayev). 3. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for (Skatkin)

(Handicraft)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVITAYEV, Petr Alekseyevich; RYBAKOVA, N.T., redaktor; DZHATIYEV, S.O., tekhnicheskiy redaktor.

[Work of pupils of grades 1-4 in school gardens; a practical manual for teachers] Trud uchashchikshia I-IV klassov na uchebno-opytnom uchastke; metodicheskoe posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1957, 97 p. (MIRA 10:4)
(School gardens)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVITAYEV, P. A.

Zavitayev, P. A. - "Academician Trofin Denisovich Lysenko, Chief of the soviet Michurinians," Nach. shkola, 1949, No. 3, p. 5-11

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVITAYEV, Petr Alekseyevich; RYBAKOVA, N.T., redaktor; DAZHETIYEV, S.G. tekhnicheskiy redaktor.

[Equipment for nature study lessons; manual for elementary school teachers] Oborudovanie zaniatii po prirodovedeniiu; posobie dlia uchitelia nachal'noi shkoly. Izd.4-e. Moskva, Gos.uchebno-pedagog. izd-vo. Ministerstva prosveshcheniia RSFSR, 1955. 174 p.(MLRA 8:9)
(Nature study) (Biological appratus and supplies)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

KRAYEV, Ivan Stepanovich; SLONOV, M.M., retsenzent; MAYORSKIY, G.I., retsenzent; ZAVITAYEV, Ye.F., red.; MAKRUSHINA, A.N., red.izd-va; SALAZKOV, N.P., tekhn.red.

[Principles of the commercial exploitation of river transportation and the organization of freight operations] Osnovy kommercheskoi ekspluatatsii rechnogo transporta i organizatsii gruzovykh rabot. Moskva, Izd-vo "Rechnoi transport," 1957. 322 p. (MIRA 11:6)
(Inland water transportation)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

BODROV, A.D.; SHIPILIN, N.N.; SLONOV, M.M., retsenzent; KRAYEV, I.S., retsenzent; ZAVITAYEV, Ye.F., redaktor; VINOGRADOVA, N.M., redaktor izdatel'stva; TSVETKOVA, S.V., tekhnicheskiy redaktor

[Manual for the receiving and shipping clerk of dry cargos] Posobie priemosdatchiku skhogruzov. Izd. 3-oe. Moskva, Izd-vo "Rechnoi transport," 1957. 199 p. (MLRA 10:10)
(Dry-goods--Transportation)
(Inland water transportation)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ALEKSEYEV, Nikolay Pavlovich; SLONOV, M.N., retsenzent; NIKITIN, N.F., retsenzent; ZAVITAYEV, Ye.F., red.; LOBANOV, Ye.M., red.izd-va; BOBROVA, V.A., tekhn.red.

[Handbook on cargo handling, inland water transportation in containers and forwarding operations] Spravochnik po transportno-ekspeditsionnoi rabote i konteinernym perevozkam na rechnom transporte. Izd.2., perer. i dop. Moskva, Izd-vo "Rechnoi transport," 1960. 225 p. (MIRA 13:5)
(Cargo handling) (Inland water transportation)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

39635

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B124/B180

15.8100

AUTHORS: Kirillova, E. I., Matveyeva, Ye. N., Zavitayeva, L. D., Fratkina, G. P., Obol'yaninova, N. A.

TITLE: Aging of polystyrene plastics. Thermal aging of styrene - acrylonitrile copolymers

PERIODICAL: Plasticheskiye massy, no. 8, 1962, 3-10

TEXT: Thermal aging of styrene - acrylonitrile copolymers CH-10 (SN-10) (10.8% acrylonitrile groups), CH-20 (SN-20) (20.15 and 21.4% acrylonitrile groups, molecular weight 113,000 and 119,000), and also CH-28 (SN-28) (29.55, 26.3, and 27.7% acrylonitrile groups, molecular weight 168,000, 120,000, and 132,000) was investigated on films 50-100 μ thick between 140 and 180°C, and compared with that of polystyrene films. For the copolymers, dichloro ethane was used as solvent and petroleum ether as precipitant, with benzene and ethyl alcohol for the polystyrene. The molecular weights were calculated from the viscosimetric data of L. N. Veselovskaya. The degree of aging was estimated on the basis of the measured intrinsic viscosity, the nitrogen content, and the carbonyl group

Card 1/3

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Aging of polystyrene plastics. ...

formation determined by absorption spectrometry. The rate of formation of oxygen-containing groups falls as the acrylonitrile content in the copolymer rises, and also with its molecular weight (Fig. 8). It is 2-3 times greater in polystyrene than in the SN-28 copolymer. Azomethines with one OH group were effective stabilizers in ortho- and para-position in aniline and one NH_2 group in para-position only. Azomethine obtained by introducing the group $(CH_3)_2N$ in benzaldehyde proved to be inefficient while the same compound with one OH group in aniline was highly effective. Azomethines based on salicyl aldehyde and hydroxy aniline are also good stabilizers. All azomethines discolor the product and are only recommended for black products. Effective alkyl phenols are phenyl cresylol propane, phenyl isopropyl resorcin, phenyl isopropyl pyrocatechin, 3-methyl-4-phenyl ethyl-6-isopropyl phenol, 3-methyl-4-phenyl isopropyl-6-isopropyl phenol, butyl gallate, bis-[2-tert-butyl-4-methyl phenol]-methane. Extension of the carbon chain between two benzene rings does not greatly affect the stabilizing effect while the latter is increased by introducing a CH_3 group in the benzene ring in the case of dimethyl phenyl-p-cresol and dicresylol propane. There are 11 figures

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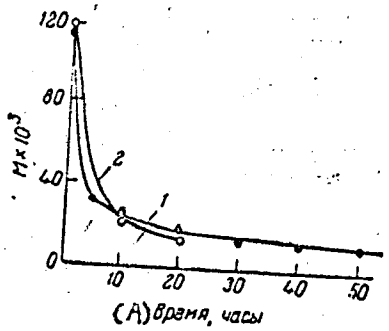
"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Aging of polystyrene plastics. ...

S/191/62/000/008/001/013
B124/B180

and 5 tables. The three English-language references are: S. L. Madorsky, S. Straus, Ind. Eng. Chem. 40, 848 (1948); H. H. G. Ellinek, J. Polymer Sci. 3, 850 (1948); 4, No. 1 (1949); M. J. Reiney, M. Tryon, B. G. Achhammer, J. Res. Nat. Bur. Stand. 51, No. 3, 155 (1953).

Fig. 8. Change of molecular weight in thermal aging: (1) SN-20; (2) SN-28.
Legend: (A) time, hrs.



Card 3/3

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

KIRILLOVA, E.I.; MATVEYEVA, Ye.N.; ZAVITAYEVA, L.D.; GLAGOLEVA, Yu.A.; LEYTMEN, K.A.; FRATKINA, G.P.

Studying the physicomechanical properties of shock-resistant polystyrenes during aging. Plast. massy no.2:43-45 '66. (MIRA 19:2)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

KIRILLOVA, E.I.; MATVEYEVA, Ye.N.; ZAVITAYEVA, L.D.; FRATKINA, G.P.; OBOL'YANINOVA, N.A.

Aging of polystyrene plastics; thermal aging of styrene copolymers with acrylonitrile. Plast.massy no.8:3-10 '62. (MIRA 15:7)
(Styrene polymers) (Plastics)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ACC NR: AP6005953 (A)

AUTHOR: Kirillova, E. I.; Matveyeva, Ye. N.; Zavitayeva, L. D.; Glagoleva, Yu. A.; Leytman, K. A.; Fratkina, G. P.

ORG: none

TITLE: A study of the physicomechanical properties of impact-resistant polystyrenes during aging

SOURCE: Plasticheskiye massy, [illegible]

TOPIC TAGS: polystyrene, light aging, thermal aging, impact strength, [illegible] hydroxyl group, polymer [illegible]

ABSTRACT: The changes in the [illegible]

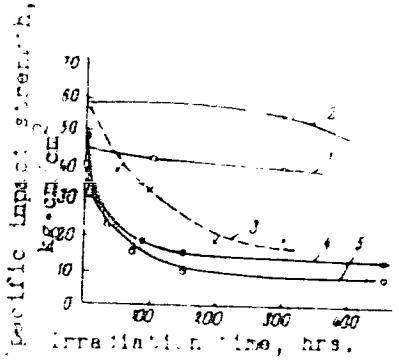
[illegible]

UDC: [illegible] 678.746.2 [illegible] 675.024.7 [illegible] 539.3

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

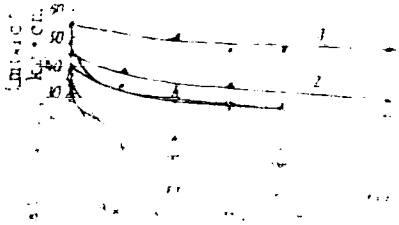
"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Fig. 1. Change in specific impact strength with irradiation: 1 and 2 - SNP; 3 - SNP (irradiation at 50-60C); 4 - UPP-2 with TiO_2 filler; 5 - UPP-2 without filler.



The SNP-2 was practically unchanged by thermal aging, while the [illegible]

Fig. 2. Change in specific impact strength with prolonged heat aging at 60C: 1 - UPP-2 without filler; 2 - UP-1; 3 - SNP; 4 - $PS-SU_3$; 5 - $PS-SU_2$.



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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

L 20799-66

ACC NR: AP6005953

[illegible] rays and increased temperatures affect polystyrene [illegible] specific impact strength and [illegible]

[illegible]

Card 3/3

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVITAYEVA, V., inzh.; KOVALEV, A., inzh.

Using epoxide pastes in repairing cylinder blocks and heads.
Avt. transp. 37 no.7:27-28 Jl '59. (MIRA 12:10)
(Automobiles--Engines)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVITAYEVA, V.G.; KOVALEV, A.F.

Using epoxide resins and their compounds in repairing motor vehicle engines. Obm.tekh.opyt.na avt.transp. no.4:8-20 '60.
(MIRA 13:12)

(Motor vehicles--Engines)
(Resins, Synthetic)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Polish Technical Abst.
No. 4, 1953
Transport

2107 629.113.3.013

Zawistowski F. Outdoor Parking of Motors Vehicles.

„Bezgarażowe przechowywanie samochodów". Motoryzacja. No. 1, 1953, pp. 80—82, 1 tab.

Outline of the proper organisation of outdoor depots, to dispense with garages. Investigations over this problem together with methods advanced by the Central Office of Studies and Doing of Road and Air Transport in respect of preliminaries for, and the actual process of heating the vehicle engine by means of electrical energy or steam. Description of a device installed on an engine for the admission of steam. Comparison of the approximate cost of keeping vehicles out-doors, and using electric heaters - with the cost of garaging.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

DOMBROVSKIY, T.; ZAVISTOVSKIY, S.; MINTSER, T.; GADOMSKAYA, Ya.; TYRAKOVSKIY, M.

Toxic effect of parathion on the organism of white rats. Vop. pit. 24 no. 6:7-12 N-D '65 (MIRA 19:1)

1. Katedra tekhnologii rybnoy promyshlennosti Vysshey sel'skokhozyaystvennoy shkoly v Ol'shtyne i kafedra gistologii i embriologii Meditsinskoy akademii v Gdanske, Pol'sha.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVIZINA, N.M. (Novosibirsk)

Students receiving practical experience in a plastics factory.
Khim. v shkole 13 no.5:65-67 S-O '58. (MIRA 11:9)
(Plastics industry--Study and teaching)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

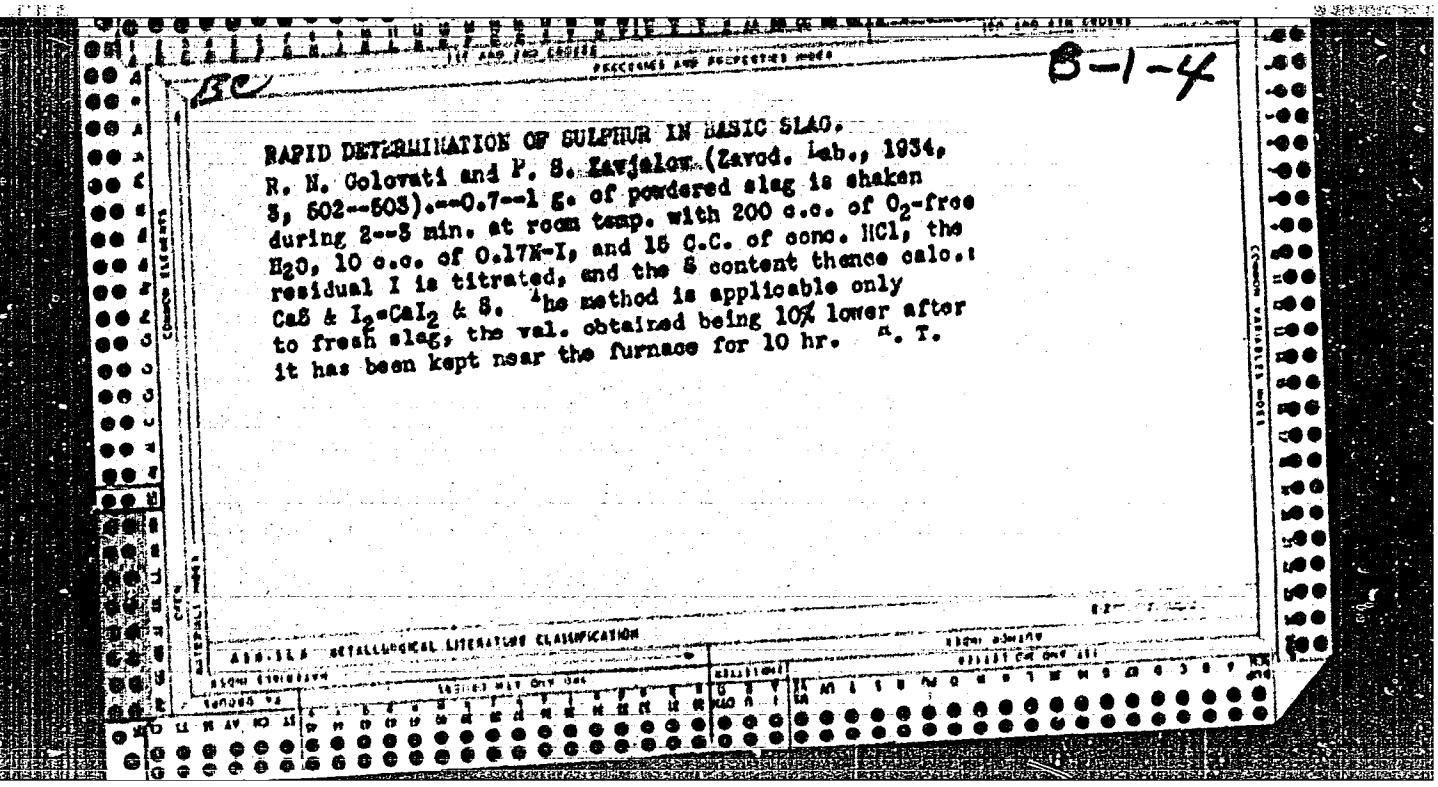
ZAVIZION, Ye.F., uchitel'nitsa

Experiments with latex and polyvinyl alcohol. Khim. v shkole 18 no.3:76-79 My-Je '63. (MIRA 16:9)

1. Shkola rabochey molodezhi No.38, Khar'kov.
(Polymers--Experiments)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5



B-1-4

RAPID DETERMINATION OF SULPHUR IN BASIC SLAG.
R. N. Golovati and P. S. Savjalow. (Zavod. Lab., 1934, 3, 502--503).---0.7--1 g. of powdered slag is shaken during 2--5 min. at room temp. with 200 c.c. of O_2-free H_2O, 10 c.c. of 0.17N-I, and 15 C.C. of conc. HCl, the residual I is titrated, and the S content thence calc.: $CaS + I_2 = CaI_2 + S$. The method is applicable only to fresh slag, the val. obtained being 10% lower after it has been kept near the furnace for 10 hr. A. T.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVLIN, I.

Production and use of foam concrete. Mais. ind. SSSR 31 no.4:14-16 '60. (MIRA 14:7)

1. Leningradskiy myasokombinat.
(Air-entrained concrete)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ACC NR: AP6021447 (A) SOURCE CODE: UR/0413/66/000/011/0073/0073

INVENTORS: Zavlin, P. M.; Ayrapetyan, S. G.

ORG: none

TITLE: A method for obtaining polyphosphonates. Class 39, No. 182328 [announced by Leningrad Electrotechnical Institute of Communications im. Professor M. A. Bonch-Bruyevich (Leningradskiy elektrotekhnicheskiy institut svyazi)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 73

TOPIC TAGS: phosphorus compound, ester, ethyl, phosphinic acid

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonates by homopolycondensation of heated aminoethyl esters of phosphinic acids. To enlarge the assortment of polyphosphonates with self-extinguishing properties, N-β-hydroxyethyl β-aminoethyl ester of β-chlorethyl-phenylphosphynic acid is used.

SUB CODE: 07/ SUBM DATE: 28Apr65

UDC: 678.675'1.678.85

Card 1/1

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

L 30967-66 EWP(1)/EWT(m) RM/WW

ACC NR: AP6000979 (A) SOURCE CODE: UR/0286/65/000/022/0058/0058

AUTHORS: Zavlin, P. M.; Sokolovskiy, M. A.; Yurenko, I. V.

43
B

ORG: none

TITLE: A method for obtaining esters of polyphosphonitrile. Class 39, No. 176402

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 58

TOPIC TAGS: polymer, polymerization, catalytic polymerization, titanium compound, catalyst, chlorine compound, titanium compound

ABSTRACT: This Author Certificate presents a method for obtaining esters of polyphosphonitrile on the basis of oligomers of phosphonitrile chloride. To increase the variety of this type of polymers, the oligomers of phosphonitrile chloride are reacted with epichlorohydrin in the presence of a titanium tetrachloride catalyst.

SUB CODE: 11/07/ SUBM DATE: 13Apr63

Card 1/1 dc UDC: 678.85

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVLIN, P.M.; SOKOLOVSKIY, M.A.; TENISHEVA, R.S.

Interaction of natural rubber with diakyl phosphites. Zhur. prikl. khim. 37 no. 4:928-929 Ap '64. (MIRA 17:5)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

GINZBURG, O.F.; ZAVLIN, P.M.

Arylmethane dyes. Part 3: Certain relations between the structure and acid-basic properties of triphenylmethane dyes. Zhur.ob.khim. 32 no.11:3559-3562 N '62. (MIRA 15:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Methane) (Dyes and dyeing)
(Hydrogen-ion concentration)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

SOKOLOVSKIY, M.A.; ZAVLIN, P.M.; GEFTER, Yo.L.; MOSHKIN, P.A.

Phosphorus-containing monomers. Part 1: Bis-esters of vinylphosphinic acid having different functional groups. Zhur. ob. khim. 31 no. 11:3652-3654 N '61. (MIRA 14:11)
(Phosphinic acid) (Phosphorus organic compounds)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

MAKARENIYA, A.A., kand. khim. nauk; ZAVLIN, P.M., kand. khim. nauk; RAZUMOVSKIY, V.V., prof., red.

[Chemistry textbook] Uchebnoe posobie po khimii. Leningrad, Leningr. elektrotekhn. in-t sviazi, 1964. 134 p. (MIRA 18:7)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVLIN, P.M.; RAZUMOVSKIY, V.V.

Homopolycondensation of di-(β-aminoethyl ester) of methylphosphinic acid. Vysokom. soed. 7 no.8:1415-1416 Ag '65. (MIRA 18:9)

1. Leningradskiy elektrotekhnicheskiy institut svyazi.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

S/080/60/033/010/029/029
D216/D306

AUTHORS: Zavlin, P.M., and Ionin, B.I.

TITLE: Preparing trialkylphosphates

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960, 2376 - 2378

TEXT: The authors' investigation of the reaction of fatty oxyamines with phosphorus trichloride and other chloranhydrides of phosphoric acid has shown that in the simultaneous presence of an amine group and an oxy-group the ester of phosphoric acid is formed by the general scheme:

$$>\underset{(=O)}{P} - Cl + HO(CH_2)_nNH_2 \rightarrow >\underset{(=O)}{P} - O(CH_2)_nNH_2 \cdot HCl.$$

From this it can be predicted that phosphorus trichloride will react with alcohols in the presence of primary amines forming the corresponding esters of phosphoric acid by the reaction:

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Preparing trialkylphosphates

S/080/60/033/010/029/029
D216/D306

$$PCl_3 + 3ROH + 3R_1NH_2 \rightarrow P(OR)_3 + 3R_1NH_2 \cdot HCl.$$

Subsequent work has shown that this is so and the present work deals with the use of aniline as the primary amine. The table shows the trialkylphosphates prepared and gives some of their data which corresponds well to the pusblished data. Trimethylphosphate was prepared from 96 gm. (3 moles) of methanol, 279 gms. (3 moles) of aniline and 700 mls. of absolute ether; to this mixture (in a 3 necked flask fitted with a stirrer, reflux condenser and dropping funnel), at 15-20°C, a solution containing 137 gm. (1 mol) PCl_3 in 150 mls. of absolute ether was slowly added with continuous stirring. The reaction was complete in 1-1.5 hours. The resultant liquor was freed of aniline hydrochloride and the solvent was distilled off; the yield was 72 gms. Triethylphosphate was prepared using a similar set up and the following reagents: 69 gm. (1.5 moles) of ethyl alcohol, 139 gms. (1.5 mole) of aniline, and 500 mls. of benzene; to this mixture at 18-20°C 68.5 gms. of PCl_3 of benzene were

Card 2/4

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added. The reaction was complete in 1-1.5 hours. Tripropylphosphate tri isopropylphosphate and tributylphosphate were prepared in an analogous manner to triethylphosphate. There are 1 table and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: A.A. Toord-Moore, J.H. Williams, J. Chem. Soc., 1469, 1947.

SUBMITTED: March 9, 1960

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVLIN, P. M., CAND CHEM SCI, "STUDY OF CONVERSIONS OF AMINOTRIPHENOLMETHANE DYES IN ACID MEDIA." LENINGRAD, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR, LENINGRAD ORDER OF LABOR RED BANNER TECHNOL INST IM LENSOVET). (KL, 3-61, 200).

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

GINZBURG, O.F.; ZAVLIN, P.M.

Conversions of triphenylmethane dyes in acid media. Part 2: Study of complex acid-base equilibria. Zhur. ob. khim. 31 no.1:75-80 Ja '61. (MIRA 14:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Dyes and dyeing) (Acid-base equilibrium)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

GINZBURG, O.F.; ZAVLIN, P.M.

Hydrolysis of malachite green derivatives containing methyl and sulfo groups. Zhur. ob. khim. 27 no.3:678-681 Mr '57. (MLRA 10:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Malachite green)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

AUTHORS: Ginzburg, O. F., Ioffe, D. V., Zavlin, P. M.

SOV/79-29-2-34/71

TITLE: On Dyestuffs With Antipyrine Nuclei (O krasitelyakh s antipirinovymi yadrami). VI. Dyestuffs With One Antipyrine Nucleus (VI. Krasiteli s odnim antipirinovym yadrom)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 519-522 (USSR)

ABSTRACT: On the heating of antipyrine with Michler's ketone in the presence of phosphorus trichloride the dyestuff (I) is formed to the ion of which structure (I) corresponds. This dyestuff colors cotton treated with tannin blue and the wool fiber violet. On the action of alkali liquor (I) is transformed into bis-(n-dimethyl-amino-phenyl)-antipyryl carbinol, which on acidification again passes into the dyestuff. Dyestuff (II) which contains only one antipyrine nucleus was synthesized from antipyryl phenyl ketone and dimethyl alanine. The authors tried to synthesize (II) also by reaction of 4-dimethyl-amino benzophenone with antipyrine in the presence of PCl_3, but only traces of (II) were produced and diantipyryl methane was obtained from the reaction mass, the formation of

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

On Dyestuffs With Antipyrine Nuclei.
VI. Dyestuffs With One Antipyrine Nucleus

which can be explained only by cleavage of 4-dimethyl-amino benzophenone which is far-reaching under these conditions. Compound (II) is an asymmetrical dyestuff that is similar to the orange antipyrine dyestuff and malachite green as far as their arrangements are concerned. The dyestuffs synthesized hydrolyze in aqueous solutions, as is the case with triaryl methane dyestuffs. The hydrolysis constants of the dyestuffs which were determined by the colorimetric method are listed in table 1. For comparison also the hydrolysis constants of the orange antipyrine dyestuff and malachite green are given in the same table. The asymmetrical dyestuff that is produced from antipyryl phenyl ketone and dimethyl aniline possesses a higher resistivity to hydrolysis than the corresponding symmetrical dyestuffs, malachite green and antipyrine orange. There are 1 figure, 2 tables, and 3 references, 2 of which are Soviet.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

On Dyestuffs With Antipyrine Nuclei. SOV/79-29-2-34/71
VI. Dyestuffs With One Antipyrine Nucleus

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta
(Leningrad Institute of Technology imeni Lensovet)

SUBMITTED: December 31, 1957

Card 3/3

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

S/079/60/030/05/17/074
B005/B126

AUTHORS: Ginzburg, O. F., Zaylin, P. M.

TITLE: Conversions of Triphenylmethane Dyes in Acid Media. I. Determination of the Basicity Constants of the Amino Groups in the Cations of the Dyes

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1479-1485

TEXT: In order to determine the connection between the structure and the acid-basic properties of triphenylmethane dyes, the authors examined the influence of the position of a substituent X on the value of the basicity constant of the dimethyl amino groups. They analyzed acid solutions of dyes of the group malachite-green. Univalent cations of diaminotriphenylmethane dyes (A) were almost immediately converted into strongly colored divalent cations (B) in acid medium (Ref. 3). The scheme of this conversion (A) + $H^+ \rightleftarrows$ (B) is given (1). The analysis of dyes in which the substituent X was in meta- or para position to the central carbon atom, showed that in this case, just as the divalent cation of malachite-green, the cations (B) are instable and gradually disappear again. This leads to

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

a displacement of the above equilibrium (1), whereupon the concentration of the univalent cation in the solution also decreases. Fig. 1 shows the decrease in optical density of solutions of three of the dyes analyzed at λ_{max} of the form (A), in dependence on the time at pH 1.1. The optical densities D_o which were used to calculate the basicity constants of the dimethylamino groups, were obtained by extrapolation at the time t = 0. When on the other hand the substituent X is in ortho-position to the central carbon atom, the optical density of acid solutions of the dyes is stable (Fig. 2). Therefore a substituent in ortho-position lends its stability to the divalent cation. This result is also confirmed by the analysis of the spectra of the dyes (Fig. 3). When using triphenylmethane dyes as indicators, it is therefore advantageous to take not malachite-green itself, as proposed in publications (Ref. 5), but ortho-substituted derivatives of malachite-green. Table 1 shows the basicity constants of the dimethylamino groups of 13 different substituted dyes of the malachite-green group. These constants differ only relatively little from the basicity constant of malachite-green (2.10^{-13}). Table 2

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Conversions of Triphenylmethane Dyes in Acid Media. I. Determination of the Basicity Constants of the Amino Groups in the Cations of the Dyes

S/079/60/030/05/17/074
B005/B126

shows the variation in the optical density of solutions of the 13 dyes at two different pH values in dependence on the time (0, 4, 8, 12, and 16 minutes after production of the solution). The table also gives optical density, D_{max} of its univalent cation (type (A)) and the pK_o-value of the dimethylamino groups of each dye, calculated by a given equation. The determination of the basicity constants and the recording of the absorption spectra of solutions of o-sulfomalachite-green are described in the experimental part. The absorption spectra were taken on a type СФ-4 (SF-4) spectrophotometer. Table 3 shows the optical density of solutions of o-sulfomalachite-green, and the percentage ratio of the types (A) and (B) in the solution at different pH values. There are 3 figures, 3 tables, and 9 references: 4 Soviet, 2 American, and 3 German.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: June 1, 1959

Card 3/3

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

SOKOLOVSKIY, M.A.; ZAVLIN, P.M.

Reactions of phosphorus acid chloroanhydrides with bifunctional organic compounds. Part 1: Reaction of phosphorus acid chloroanhydrides with aliphatic hydroxyamines. Zhur. ob. khim. 30 no.11:3562-3565 N'60. (MIRA 13:11)
(Amines) (Phosphorus acids)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

1226/1305

5.3630

AUTHORS: Sokolovskiy, M. A., Zavlin, P. M., Gefter, Ye. L. and Moshkin, P. A.

TITLE: Full esters of vinylphosphinic acid with different functional groups

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 11, 1961, 3652-3654

TEXT: The authors studied the reaction of di(β-chloroethyl) vinylphosphinate (I) with ethanolamine and ω-aminoenanthic acid and prepared two previously unsuspected compounds: bis(N-β-oxyethyl-β-aminoethyl) vinylphosphinate — $CH_2{:}CHP(O)(OCH_2CH_2NHCH_2CH_2OH)_2$ (II); and bis(N-ω-carboxyl-hexyl-β-aminoethyl) vinylphosphinate — $CH_2{:}CHP(O)\left(OCH_2CH_2NH(CH_2)_6COOH\right)_2$ (III). The full esters are of interest since they contain functional groups capable of condensation processes—

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APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Full esters of...

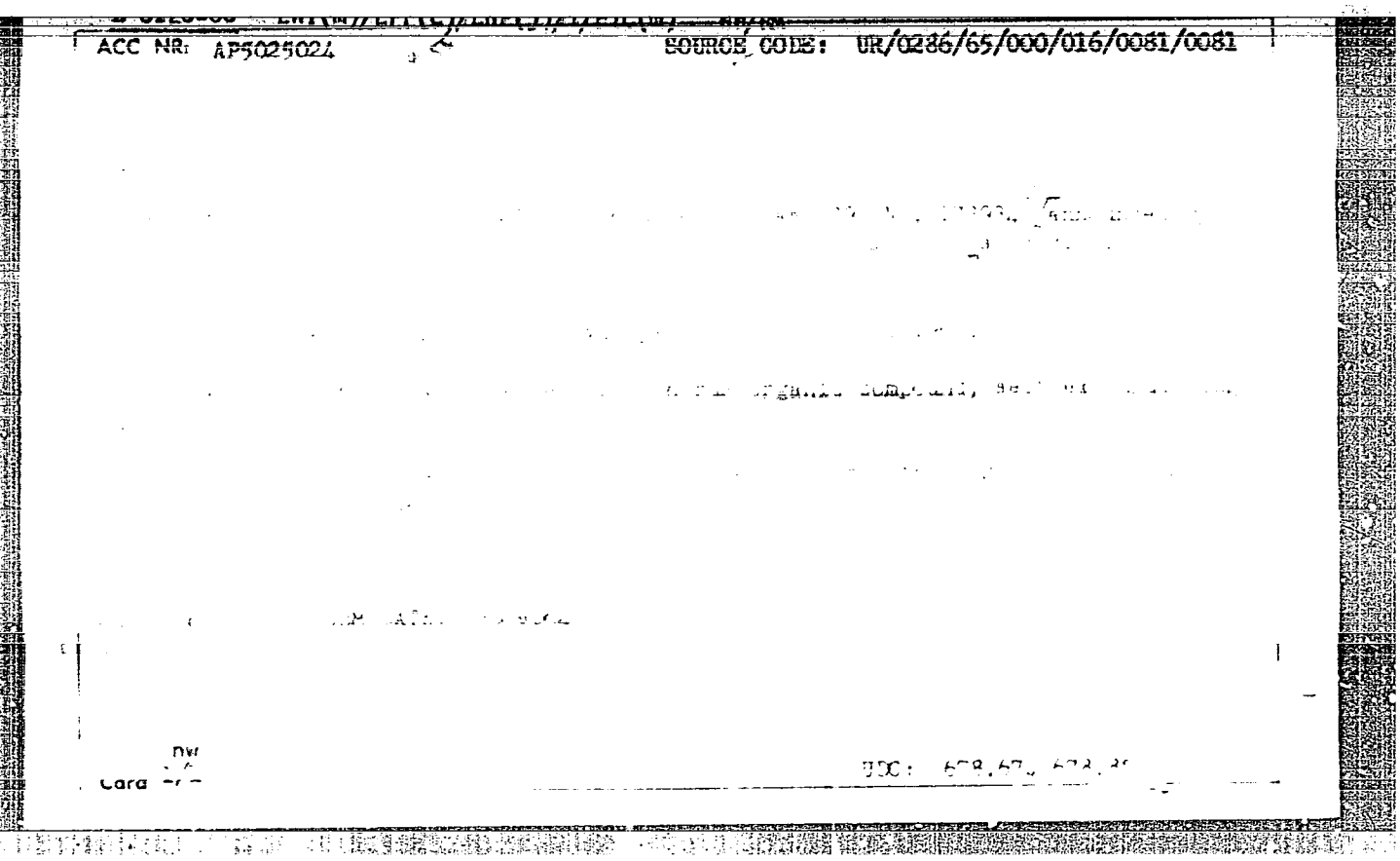
secondary amines and hydroxyl groups, or secondary amines and carboxyl groups. Previous work by Ye. L. Gefter (Ref. 3: Zh. obshch. khimii, 28, 2500, 1958) and Ye. L. Gefter and P. A. Moshkin (Ref. 4: Plastmassy, no. 4, 54, 1960) showed that I may serve as the original material for synthesis of II and III. II was prepared by stirring a mixture of I and ethanolamine in a flask fitted with a reflux condenser, thermometer, and dropping funnel for about 2 hr. at 40 - 45°; the reaction was carried to completion by heating for a further hour on a water-bath at 80°. The full ester was obtained from the dihydrochloride by removing the alcohol and NaCl formed during its treatment with Na alcoholate. The procedure for the synthesis of III from I, aq. alcohol, and ω-aminoenanthic acid is similar, apart from the fact that the mixture is heated for 4 hr. to obtain the dihydrochloride. There are 5 Soviet-bloc references.

SUBMITTED: December 6, 1960

Card 2/2

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5



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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

L 05179-67 EWT(m)/EWP(j) RM

ACC NR: AP7000745 SOURCE CODE: UR/0079/66/036/005/0945/0945

ZAVLIN, P. M., KOR'YAKOV, O. P., RAZUMOVSKIY, V. V.

"O-beta-Aminoethyl-O-ethyl Ester of Methylphosphinic Acid and Its Conversions"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 5, 1966, p 945

Abstract: The reaction of the chloride of the ethyl ester of methylphosphinic acid with ethanolamine (without a solvent) leads to the formation of the hydrochloride of O-beta-aminoethyl-O-ethyl ester of methylphosphinic acid in quantitative yield. When this hydrochloride is treated with sodium alcoholate, the free base -- O-beta-aminoethyl-O-ethyl ester of methylphosphinic acid -- is isolated. This compound readily undergoes homopolycondensation, yielding a resin with molecular weight 1400-1800. corresponding to a coefficient of polymerization of 11-14.

[JPRS: 37,023]

TOPIC TAGS: phosphinic acid, polycondensation

SUB CODE: 07 / SUBM DATE: 19Nov65 / ORIG REF: 002

Card 1/1 vmb

UDC: 547.26.118

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

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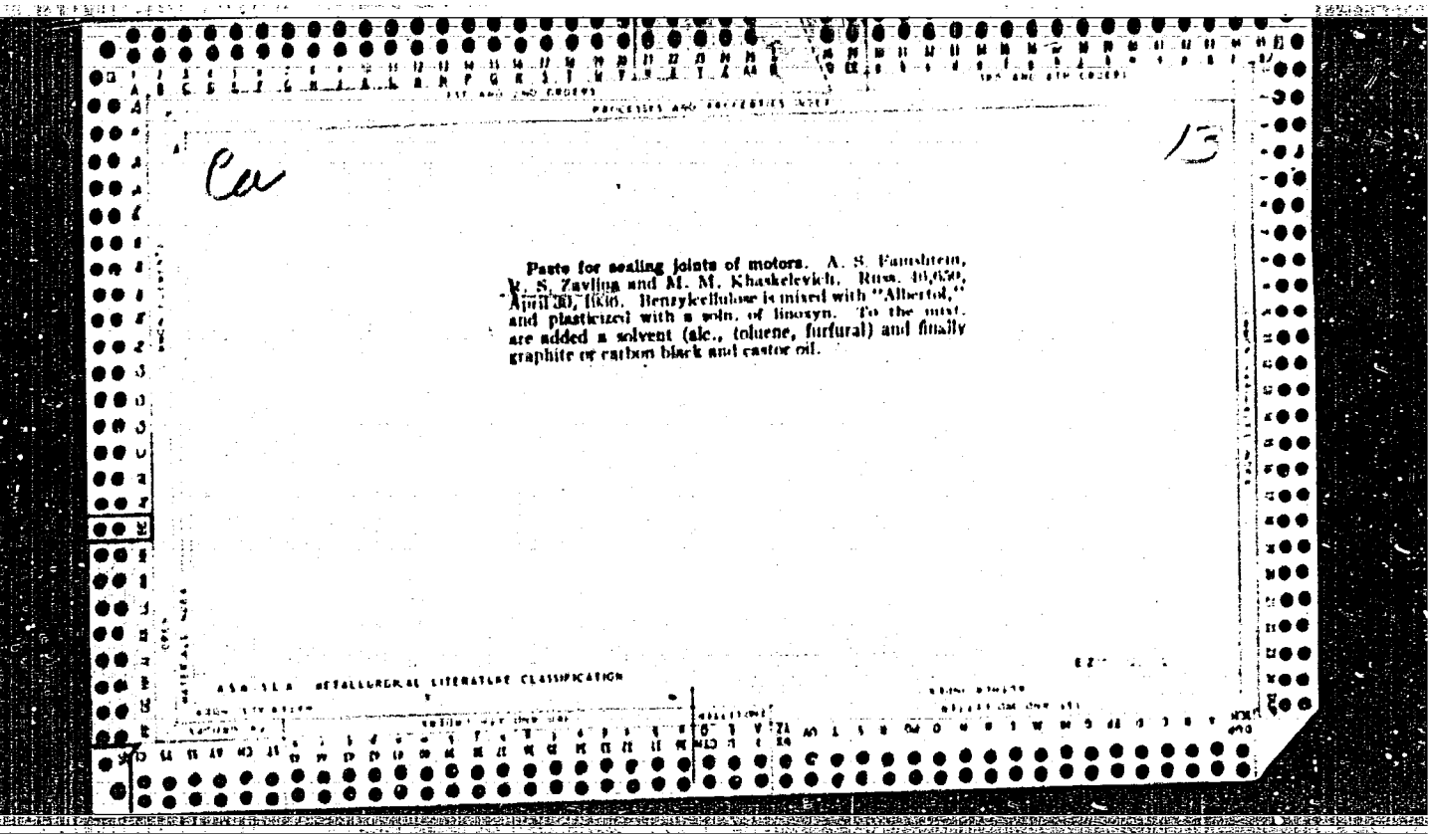

Cu

13

Paste for sealing joints of motors. A. S. Fainshtein, V. S. Zavilga and M. M. Khaskelevich. Russ. 49,630, April 30, 1936. Benzylcellulose is mixed with "Albertol," and plasticized with a min. of linoxyn. To the mixt. are added a solvent (alc., toluene, furfural) and finally graphite or carbon black and castor oil.

ASTIA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

SHVARTSMAN, D.A.; SKORODUMOVA, V.A.; ZAVLINA, P.S.

Correct analysis of yarn breakage on spinning spindles. Tekst. prom. 21 no.6[illegible]4-8 Je '61. (MIRA 15:2)
(Spinning)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

L 44584-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6015670 (A) SOURCE CODE: UR/0413/66/000/009/0076/0076 14 B

INVENTOR: Fingauz, I.M.; Zavlina, R. Z.; Trofimova, N. V.; Piastro, O.V.

ORG: none

TITLE: Method of obtaining polyvinyl dimethoxymethane, Class 39, No. 181291 [announced by State Scientific Research Institute of Polymers (Gosudarstvennyy nauchno-issledovatel'skiy institut polimerizatsionnykh plastmass)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, otvarnyye znaki, no. 9, 1966, 76

TOPIC TAGS: polyvinyl, polyvinyl dimethoxymethane

ABSTRACT: An Author Certificate has been issued for a method of obtaining polyvinyl dimethoxymethane by a heterogeneous process of polyvinyl alcohol and formaldehyde which occurs in a water medium upon heating in the presence of hydrochloric acid and an emulsifier. To obtain a finely divided product, carboxylmethylcellulose is used as the emulsifier. [NT] [Translation].

SUB CODE: 11/ SUBM DATE: 09Nov64/

Card 1/1 LJM UDC: 678.744.531.07

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVOD, YE. B.

83240

18.6200 also 2108, 2308

S/136/60/000/009/002/004
E193/E483

AUTHORS: Borok, B.A., Gavrilova, V.K., Korzman, G.V., Trifonov, Ye.A. and Zavod, Ye.P.

TITLE: Manufacture of Titanium Tubes from Sintered Material by Extrusion and Rolling

PERIODICAL: Tsvetnyye metally, 1960, No.9, pp.65-68

TEXT: Shells (83 and 100 mm in diameter, 150 to 200 mm high), prepared by powder metallurgy technique from technical grade titanium IMP1, were extruded on a 600 t vertical extrusion press, equipped with die and mandrel made of steel 3KhV8. The shells were pre-heated to 860 to 1050°C by induction heating (5 to 10 min), the temperature of the container being 200 to 250°C. A mixture of graphite and machine oil was used as a lubricant. The extrusion pressure did not exceed 180 atm when the extrusion temperature was 800°C and decreased to below 150 atm for shells pre-heated to 950°C. The extrusion speed of 8 m/sec was used, the tubes obtained being 32 to 50 mm in diameter with the wall thickness varying between 2.5 and 7.5 mm. Irrespective of the extrusion temperature employed, the extruded tubes had longitudinal scratches on both outside and inside surfaces.

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The surface finish of tubes extruded at temperatures above 950°C was extremely bad. The condition of the container and particularly of the mandrel, after one operation only, was also very bad, owing to titanium adhering to their surfaces, which was also the cause of the longitudinal scratches on the extruded tubes. Somewhat better results were obtained when steel R18 was used as the material of the container lining and mandrel, but even then these parts had to be scrapped after each operation. Several attempts were made to improve the surface finish of the tubes by applying different lubricants; the best results were obtained with a mixture containing 4 parts of sodium chloride and 1 part of fluorspar which, however, failed to prevent the formation of the longitudinal scratches. The extruded tubes (measuring 32 x 3, 39 x 2.5, 41 x 3 and 50 x 7.5 mm) had the following properties: U.T.S. = 70 kg/mm²; elongation, δ, = 21%; reduction of area, ψ, = 27%; Rockwell hardness, R_c = 25. The material of the extruded tubes was markedly anisotropic in respect of its mechanical properties; micro-specimens, cut from the tubes and

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tested in the direction parallel to the tube axis, had U.T.S. = 104.6 kg/mm², δ = 26.2%, and ψ = 34.7%, the corresponding figures for specimens tested in the transverse direction were 120.8 kg/mm², 2.5% and 6.7%. Owing to the lack of suitable equipment, the surfaces of the extruded tubes were not improved before rolling. The slight curvature of the tubes was removed by hammering with wooden mallets at 600°C. Both ends of each tube with bad extrusion defects were cut off and the outside and inside surfaces were lubricated with a mixture of 60% emulsol and 40% graphite, no lubricant having been fed to the mandrel. The rolling operation was carried out on a tube rolling mill of the Rockwright type. To avoid cracking during rolling, the ends of each tube were machined to produce a taper at least 60 to 80 mm long. After the first rolling operation, during which the temperature of the tubes rose to 100°C, the tubes were annealed at 700°C by resistance heating, the heating time varying between 20 and 40 sec. The ends of the tubes were then cut off again and tapered, after which the second rolling

Card 3/4

operation was carried out. The degree of deformation attained in the first rolling operation, without causing fracture of the tube, was 34.2%. After the intermediate annealing operation, 36.7% reduction per pass could be attained. The tubes of the following dimensions (mm) were produced by this method: 22 x 1, 22 x 125, 22 x 1.5, 26 x 1.75, 26 x 2, 26.5 x 1.4, 29.6 x 1.6, 29.8 x 1.65, 34.5 x 2.4; the lengths of the tubes varied between 1500 and 6000 mm. While the results obtained showed that the technique studied had some possibilities, means of preventing adhesion of titanium on the extrusion tools will have to be found before it can become a manufacturing process. There is 1 table.

ASSOCIATIONS: TsNIIchermet
Kol'chuginskiy zavod im. Ordzhonikidze
(Kol'chugin Works im. Ordzhonikidze)

Card 4/4

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, A.B.

Regime of soil moisture in the fall, winter and spring periods in northern Kazakhstan. Trudy GGI no.92:138-151 '64.

(MIRA 17:11)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

SHIROKOV, S.F.; ZAVODOVA, Ye.I. (Krasnodar)

Treatment of children with infectious nonspecific polyarthritis at the Goryachiy Klyuch health resort. Sovet. med. 26 no.5: 148-151 My'63 (MIRA 17:1)

1. Iz kafedry detskikh bolezney (zav. - prof. S.F. Shirokov) Kubanskogo meditsinskogo instituta i detskogo sanatoriya (glavnyy vrach Ye.I.Zavodova) kurorta Goryachiy Klyuch.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, A.B.

Losses of snow water through infiltration and accumulation in the drainage basin during the snow melt in northern Kazakhstan. Meteor. i gidrol. no.3:39-43 Mr '62. (MIRA 15:3)
(Kazakhstan--Thawing)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, A.B.

Experience in calculating the hydrographs of spring floods by the genetic runoff formula. Trudy GGI no.127:158-173 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, A.B.

Characteristics of the distribution and melting of the snow cover in northern Kazakhstan. Trudy GGI no.83:28-46 '60. (MIRA 14:1)
(Kazakhstan—Snow) (Thawing)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, A.B.

Conditions of formation and the methodology of precalculating the extent of snow water runoff in small rivers of northern Kazakhstan. Trudy GGI no.82:50-75 '62. (MIRA 15:6)
(Kazakhstan--Runoff)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

Zavodchikov, A.G.

ZAVODCHIKOV, A.G.

Current track straightening. Put' i put. khoz. no.1:28 Ja '58.
(MIRA 11:1)

1. Starshiy dorozhnyy master, stantsiya Darnitsa Yugo-Zapadnoy dorogi.
(Railroads--Track)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, Aleksandr Georgiyevich; KRAGEL', Aleksandr Timofeyevich; SOROKIN, N.N., redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Section maintenance by trackmen] Popiketnoe vypolnenie rabot putevymi obkhodchikami. Moskva, Gos. transp. zhel-dor. izd-vo, 1955. 23 p. (MLRA 8:6)
(Railroads--Maintenance and repair)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

KLEMENT'YEV, V.V.; ZAVODCHIKOV, A.N.; DUDIN, R.N.; MIKHAYLOV, V.I.; GANOVA, T.N.

Roasting of nickel matte in a fluidized bed furnace. TSvet. met. 36 no.6:29-34 Je '63. (MIRA 16:7)

(Nickel--Metallurgy) (Fluidization)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

IVASHKOV, Il'ya Il'ich, kand.tekhn.nauk; ZAVODCHIKOV, D.A., dotsent, red.; SMIRNOVA, G.V., tekhn.red.; SOKOLOVA, T.F., tekhn.red.

[Laminated chains; design and construction] Plastinchatye tsepi; konstruirovanie i raschet. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 263 p. (MIRA 13:5)
(Chains)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

1. ZAVODCHIKOV, D.A.

2. USSR (600)

4. Glass Manufacture

7. Homogenization and stabilization of batch components in the glass industry, Stek. i ker. 10 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, D.A.; NEMETS, Ya.L., inzhener, redaktor; STUPIN, A.K., redaktor; MATVEIEVA, Ye.N., tekhnicheskiy redaktor.

[Elevators] Gruzopod"emnye mashiny. Moskva, Ges. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 280 p. (MLRA 9:4)
(Elevators) (Hoisting machinery)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOV, Dmitriy Arsen'yevich; TAMARIN, D.N., prof., retsenzent; DUBASOV, A.A., inzh., red.izd-va; EL'KIND, V.D., tekhn. red.

[Hoisting machinery] Gruzopod"emnye mashiny] Izd4 2., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 312 p. (MIRA 14:8)

(Hoisting machinery)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

137-58-6-11817

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 89 (USSR)

AUTHOR: Zavodchikov, N.G.

TITLE: Remote Control of Steel-ladle Stoppers (Distantsionnoye upravleniye stoporami stalerazlivochnykh kovshey)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 490-493

ABSTRACT: Stal'proyekt has developed a system of hydraulic control of stoppers, consisting of electrically driven pump, a system of valves, two hoses, and a hydraulic cylinder connected with the stopper. The hydraulic system affords two lifting and two lowering speeds for the stopper rod. The valves permit control of stopper motion within the 1-10 mm/sec range. The system of valves controls the pressure, speed, and direction of the flow of liquid in the hoses. There is a special adjusting valve which, as it is turned toward closing, limits the force with which the stopper is seated in the nozzle. The pressure in the hydraulic cylinder is regulated within the bounds of 5-50 kg/cm^2. Regulation of pressure and speed is made before the pouring of the steel begins. A sketch of a steel ladle equipped

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Remote Control of Steel-ladle Stoppers

with the hydraulic stopper control is appended. The Novo-Tul'skaya metallurgical plant has developed a remote control of three stoppers for a continuous casting installation in accordance with a simplified hydraulic scheme. A drawing thereof is presented. Experience in the use of hydraulic systems of stopper control in steel teeming opens prospects for the further improvement of the process procedure, automation of the teeming procedure, and improved safety of working conditions.

V.P.

1. Steel--Production 2. Steel (Liquid)--Handling 3. Dippers--Equipment
4. Remote control systems--Equipment 5. Hydraulic systems--Applications

Card 2/2

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KOROLEV, A.I.; BLINOV, S.T.; LUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER, A.L.; VASIL'YEV, S.V.; CHERNENKO, M.A.; BELOV, I.V.; TELESOV, S.A.; MAZOV, V.F.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.; TRUBETSKOV, K.M.; SHNEYEROV, Ya.A.; SLADKOSHTEYEV, V.T.; PALANT, V.I.; KUROCHKIN, B.N.; ZHDANOV , A.M.; BELIKOV, K.N.; SABIYEV, M.P.; GARBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY, P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH, A.V.; VERKHOVTSEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.; BORODULIN, A.I.; VAYNSHTEYN, O.Ya.; ZHIGULIN, V.I.; DIKSHTEYN, Ye.I.; KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.; ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANEV, P.N.; ZAVODCHIKOV, N.G.; GUDEMCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.Ye.; NIKOLAYEV, A.S.

Reports (brief annotations). Biul. TSNIICHM no.18/19:36-39 '57. (MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenko). 3. Chelyabinskiy metallurgicheskiy zavod (for Lubenets, Vaynshteyn). 4. Zavod im. Dzherzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Turubiner, Mazov, Podgoretskiy, Marakhovskiy, Savos'kin). 6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov). 7. Stal'proyekt (for Chernenko, Zhdanov, Zavodchikov). 8. VNIIT (for Belov). 9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Continued on next card)

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KOROLEV, A.I.---(continued) Card 2.

10. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Medvedev, Novolodskiy, Vecher). 11. Zavod "Azovstal'" (for Bul'skiy, Slepkanev). 12. TSentral'nyy nauchno-issledovatel'skiy institit chernoy metallurgii (for Trubetskov). 13. Ukrainskiy institut metallov (for Smeyerov, Sladkoshteyev, Kotin). 14. Zavod "Krasnyy Oktyabr'" (for Palant). 15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin). 16. Zavod im. Voroshilova (for Sabiyev). 17. Chelyabinskiy politekhnicheskiy institut (for Morozov). 18. Giprostal' (for Garbuz). 19. Ural'skiy institut chernykh metallov (for Pastukhov). 20. Zavod im. Petrovskogo (for Zhigulin). 21. Ministerstvo chernoy metallurgii USSR (for Molochkov, Siverskiy). 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).
(Open-hearth process)

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ZAVODNOV, S.S.; SOLOMIN, G.A.; FOMENKO, N.G.

Neutralization of acid waste water in intermediate ponds.
Gidrokhim. mat. 37:154-157 '64. (MIRA 17:4)

1. Gidrokhimicheskiy institut Glavnogo upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR, Novocherkassk.

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ZAVODCHIKOV, Petr Alekseyevich; KURBATOV, Valerian Vladimirovich; MAZOVER, Aleksandr Pavlovich; NAZAROV, Viktor Petrovich; BOLOGOV, G.N., red.; BARANOVA, L.G., tekhn.red.

[Manual on dog breeding] Spravochnaia kniga po sobakovodstvu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 317 p.
(MIRA 13:12)

(Dog breeding)

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1. ZAVODCHIKOV-CHERNYSHEV, V.

2. USSR (600)

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7. Yearly plan overfulfilled ahead of time. Sots. zhiv. 14 no. 11, 1952.

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SHAL'NOV, Mikhail Ivanovich; ISAYEV, B.M., kand.fiz.-matem.nauk, red.; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn.red.

[Neutron tissue dose] Tkanevaia doza neitronov. Pod red. B.M. Isaeva. Moskva, Izd-vo glav.upr.po ispol'zovaniiu atomnoi energii pri Sovete Ministrov SSSR, 1960. 217 p. (MIRA 13:4)
(RADIOBIOLOGY) (NEUTRONS--PHYSIOLOGICAL EFFECT)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

LEBEDINSKIY, Andrey Vladimirovich; NAKHIL'NITSKAYA, Zinaida Nikolayevna; ZAVODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Influence of ionizing radiation on the nervous system] Vliianie ioniziruiushchikh izluchenii na nervnuiu sistemu. Moskva, Izd-vo Gos.kom-ta Soveta Ministrov SSSR po ispol'zovaniiu atomnoi energii, 1960. 186 p. (MIRA 13:12)

(RADIATION--PHYSIOLOGICAL EFFECT)
(NERVOUS SYSTEM)

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CHEPKUNOV, V.V., aspirant[translator]; SKOROV, D.M., doktor tekhn. nauk, prof., red.; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn. red.

[Metallography of reactor materials]Metallovedenie reaktornykh materialov; obzory. Moskva, Gosatomizdat. [From "Reactor Core Materials"; a quarterly...] Book 3. [Moderator, reflector, and control device materials]Materialy zamedlitelia, otrazhatelia i reguliruiushchikh ustroistv. Pod red. D.M.Skorova. 1962. 113 p. Translated from the English. (MIRA 15:10)

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BURNAZYAN, A.I., red.; LEBEDINSKIY, A.V., red.; ZAVODCHIKOVA, A.I., red.; VLASOVA, A.A., tekhn.red.

[Radiation medicine] Radiatsionnaia meditsina; posobie dlia vrachei i studentov. Izd.3., perer. i dop. Moskva, Gosatomizdat, 1963. 371 p. (MIRA 16:12)
(RADIOLOGY, MEDICAL)

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GERASIMOV, V.V., kand.khim.nauk, red.; ZAVODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Corrosion of reactor materials] Korroziia reaktornykh materialov; sbornik statei. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1960. 284 p. (MIRA 14:3)

(Nuclear reactors--Materials)
(Corrosion and anticorrosives)

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GORDEYEV, I.V.; KARDASHEV, D.A.; MALYSHEV, A.V.; KRASIN, A.K., akademik, laureat Leninskoy premii, red.; ZAYODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Handbook of nuclear and physical constants used in reactor design] Spravochnik po iaderno-fizicheskim konstantam dlia raschetov reaktorov. Pod red. A.K.Krasina. Moskva, Izd-vo Gos.komiteta Soveta ministrov SSSR po ispol'zovaniiu atomnoi energii, 1960. 278 p. (MIRA 13:11)

1. AN BSSR (for Krasin).
(Nuclear reactors--Handbooks, manuals, etc.)

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PETROV, G.I.; KUTENKOV, M.V.; TENENBAUM, I.M.; YEVSEYEVA, L.S.; KONSTANTINOV, M.M., nauchnyy red. [deceased]; SHASHKIN, V.L., nauchnyy red.; SURAZHSKIY, D.Ya., nauchnyy red.; ZAVODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Methods of geological and geophysical exploration and control in uranium mines] Metody geologo-geofizicheskogo obsluzhivaniia uranovykh rudnikov. Moskva, Izd-vo Gos.kom-ta Soveta Ministrov SSSR po ispol'zovaniiu atomnoi energii, 1960. 217 p. (MIRA 13:10)

(Mining geology) (Uranium ores)

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LEYPUNSKIY, A.I., red.; FURSOV, V.S., doktor fiz.-matem.nauk, red.; STENBOK, I.A., nauchnyy red.; ZAVODCHIKOVA, A.I., red.; FRIDMAN, V.Ya., red.; MAZEL', Ye.I., tekhn.red.

[Works of the Second International Conference on the Peaceful Uses of Atomic Energy. (Selected reports by foreign scientists)]. Trudy Vtoroi mezhdunarodnoi konferentsii po mirnomu ispol'zovaniiu atomnoi energii, Zheneva, 1958. [Izbrannye Doklady inostrannykh uchenykh]. Moskva, Izd-vo Glav.uprav.po ispol'zovaniiu atomnoi energ.pri Sovete Ministrov SSSR. Vol.3. [Physics of nuclear reactors] Fizika iadernykh reaktorov. Pod obshchei red. A.I.Leipunskogo i V.S. Fursova. 1959. 803 p. (MIRA 13:6)

1. International Conference on the Peaceful Uses of Atomic Energy, 2d, Geneva, 1958. 2. Deystvitel'nyy chlen AN USSR (for Leypunskiy). (Nuclear reactors)

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PETROV, Rem Viktorovich; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn. red.

[Immunology of acute radiation lesions]Immunologiia ostrogo luchevogo porazheniia. Moskva, Gosatomizdat, 1962. 266 p. (MIRA 15:11)

(RADIATION SICKNESS) (IMMUNOLOGY)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5"

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KAROL', I.L., kand. fiz.-mat. nauk, red.; MALAKHOV, S.G., kand. fiz.-mat. nauk, red.; ZAVODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn. red.

[Nuclear meteorology]Voprosy iadernoi meteorologii; sbornik statei. Moskva, Gosatomizdat, 1962. 271 p. (MIRA 15:11)
(Radioactive fallout)

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GRIGOR'YEV, Yuriy Grigor'yevich; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn. red.

[Radiation lesions and compensation for disturbed functions; data from a study of the primary reactions of the organism under the influence of ionizing radiation in small and large doses] Luchevye porazheniia i kompensatsiia narushennykh funktsii; materialy izucheniia pervonachal'nykh reaktsii organizma pri vozdeistvii ioniziruiushchego izlucheniia v malykh i bol'shikh dozakh. Moskva, Gosatomizdat, 1963. 201 p. (MIRA 16:5)

(Radiation--Physiological effect)
(Radiation--Dosage)

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BALABUKHA, V.S., prof., red.; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn.red.

[Chemical protection of the body from ionizing radiation] Khimicheskaia zashchita organizma ot ioniziruiushchikh izlucheniia. Moskva, Izd-vo Glav.upr. po ispol'zovaniiu atomnoi energii pri Sovete Ministrov SSSR, 1960. 151 p.

(MIRA 13:5)

(RADIATION PROTECTION)

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KRUPCHITSKIY, P.A., kand. fiz.-mat. nauk, red.; ZAVODCHIKOVA, A.I., red.; POPOVA, S.M., tekhn. red.

[Neutron physics] Neitronnaia fizika; sbornik statei. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 371 p. (MIRA 14:11)

(Neutrons)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

SERGEYEV, G.Ya.; TITOVA, V.V.; BORISOV, K.A.; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn.red.

[Physical metallurgy of uranium and of certain reactor materials] Metallovedenie urana i nekotorykh reaktornykh materialov. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1960. 223 p. (MIRA 14:3)
(Uranium) (Nuclear reactors--Materials)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODCHIKOVA, V.G.; KONDRAT'YEV, K.Ya.

Spatial distribution of scattered and reflected radiation. Vest. LGU 8 no.2:107-113 F '53. (MIRA 12:7)
(Radiation)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ACC NR: AP6025601 SOURCE CODE: UR/0413/66/000/013/0041/0041

INVENTORS: Vorbitskiy, M. V.; Solov'yev, I. N.; Zavodkova, N. G.; Semenova, Ye. A.; Logunov, S. S.

ORG: none

TITLE: Static dc-to-ac converter. Class 21, No. 183270

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 41

TOPIC TAGS: transistorized circuit, dc to ac converter, frequency converter

ABSTRACT: This Author Certificate presents a transistorized bridge type static dc-to-ac converter with saturable transformers in the transistor base circuits. To stabilize the output power, copper resistors are connected in the transistor base circuits. (see Fig. 1). To stabilize the output frequency, a copper resistor is connected in series with the primary of the saturable transformer. To broaden the frequency range of conversion, an inductor with a series-connected diode is connected in parallel with the base-emitter junction of each transistor whose collector is connected to B-.

Card 1/2 UDC: 621.314.58

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ACC NR: AP6025601

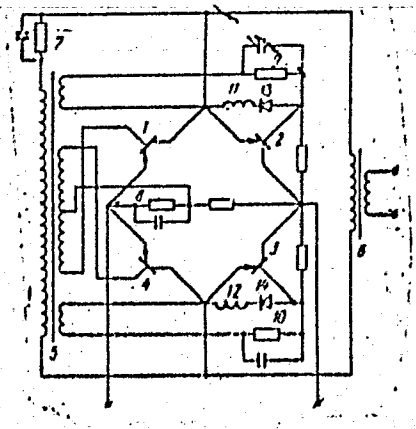

Fig. 1. 1-4 - transistors; 5 and 6 - transformers; 7-10 - copper resistors; 11 and 12 - inductors; 13 and 14 - diodes

Orig. art. has: 1 diagram.

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ZAVODNAYA, G. Ye.

PHASE I BOOK EXPLOITATION SOV/3559

Akademiya nauk SSSR. Institut metallurgii. Nauchnyy sovet po probleme zharoprochnykh splavov

Issledovaniya po zharoprochnym splavam, t. 5 (Investigations of Heat-Resistant Alloys, Vol 5) Moscow, Izd-vo AN SSSR, 1959. 423 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.F. Kuz'min; Editorial Board: I.P. Bardin, Academician, G.V. Kurdyumov, Academician, N.V. Ageyev, Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Oding, I.M. Pavlov, and I.F. Zudin, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

COVERAGE: This book, consisting of a number of papers, deals with the properties of heat-resisting metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Mo, and V on the heat-resisting properties of various alloys are studied. Deformability and workability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electrophoresis are examined. One paper describes the apparatus and methods used for growing monocrystals of metals. Boron-base metals are critically examined and evaluated. Results are given of studies of interatomic bonds and the behavior of atoms in metal. Tests of turbine and compressor blades are described. No personalities are mentioned. References accompany most of the articles.

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BAKULIN, Ye.A.; ZAVODNAYA, G.Ye.

Determination of the self-diffusion coefficient of lithium ions in aqueous LiCl solutions. Zhur.fiz.khim. 36 no.10:2261-2263 O '62. (MIRA 17:4)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR.

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ZAVODNIK, Dusan, dr

Some hydrographic observations in the phytal colonies of the environs of Rovinj. Hidrograf g-d:189-193 '63.

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NIKOLIC, M.; ZAVODNIK, D.

On the concrescense of two specimens; Phallusia mamillata (Cuv.) [Tunicata]. Bul sc Jug 6 no.1:10-11 Mr '61. (EEAI 10:9/10)

1. Laboratory of biology JAZU, Rovinj.

(Tunicata)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODNIK, N.; ZAVODNIK, D.

Notes on the biology of the sprat (Clupea sprattus L.) from the Adriatic. Bul sc Youg 7 no.6:161 D '62.

1. Biološki institut JAZU, Rovinj.

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L 21292-66

AUTHOR: Haber, M., Zavodnik, D.

ORG: Inst tute for Ocean Biology, Rovinj (Institut za biologiju mora)

TITLE: Preliminary data on work with underwater lamps

SOURCE: Split. Institut za oceanografiju i ribarstvo. Acta Adriatica, v.

TOPIC TAGS: underwater [illegible], underwater [illegible], electric lamp, electric generator, electric insulation, [illegible] research facility

ABSTRACT: The light intensity of normal and underwater lamps are theoretically examined. The results show the advantages of underwater lamps owing to their ability to reflect light and to the angle under which they can be used. The needed adaptation of the electric generator is described. With the built-in supplementary [illegible] of underwater lamps in the course of lighting and [illegible] by which such a unit may be made fit for underwater use. This method was tested at depths upwards of 50 meters and at a ship speed of 5 knots. Biological observations in connection with the employment of such underwater lamps are still in progress and will be reported in a paper to be published at a later date. [illegible] art. has [illegible] figures. [Author's abstract]

SUB CODE: 13, 06, 09 SUBM DATE: none

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ZAVODNIK, Ya.Ye.

Increase the production and improve the quality of baker's yeast.
Khleb.i kond.prom. 1 no.6:30-32 Je '57. (MLRA 10:8)
(Yeast)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964010014-5

ZAVODNOV, S.S.

Apparatus for the recrystallization of salts in the absence of oxygen in the air. Gidrokhim. mat. 35:200-202 '63. (MIRA 16:7)

1. Gidrokhimicheskiy institut, Novocherkassk.
(Salts) (Crystallization)

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